

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533826

Luminaire Tested: **GALN-SA9B-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35788 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

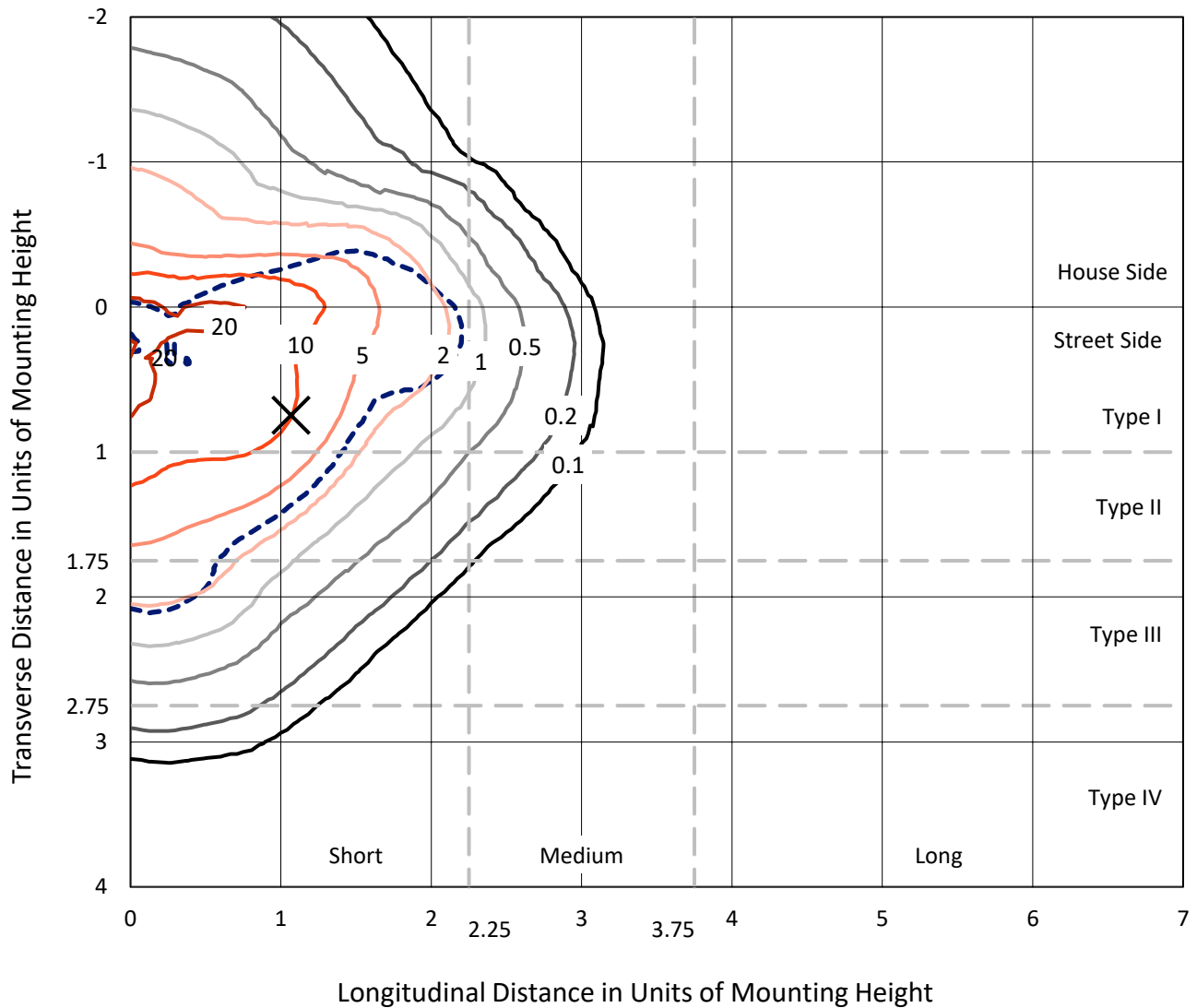
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

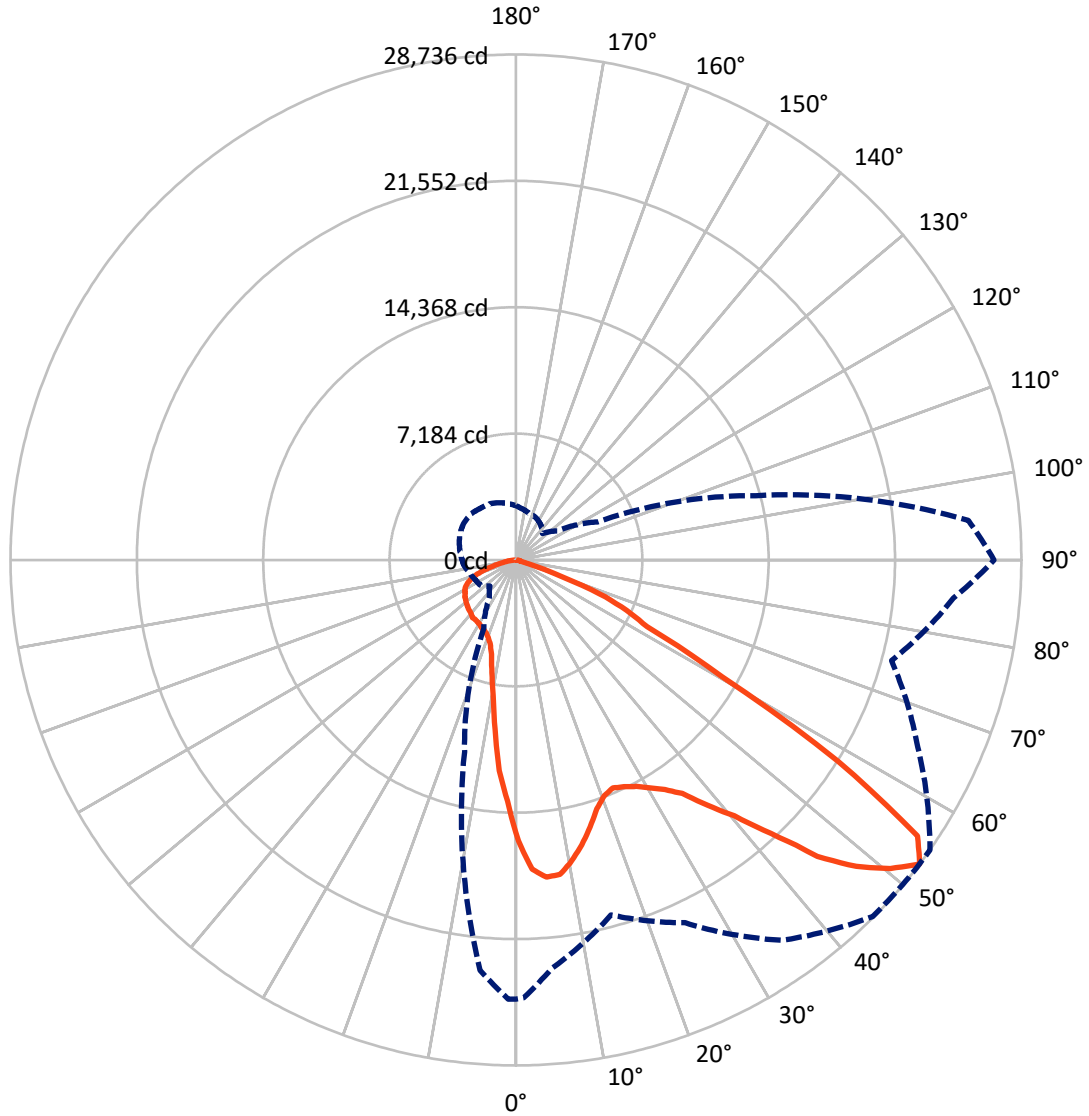
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10917.3 | 0.0 | 10917.3 |
| | % Fixture | 30.5 | 0.0 | 30.5 |
| Street Side | Lumens | 24870.7 | 0.0 | 24870.7 |
| | % Fixture | 69.5 | 0.0 | 69.5 |
| Total | Lumens | 35788.0 | 0.0 | 35788.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1219.6 | 3.4 |
| 10°-20° | 2629.7 | 7.3 |
| 20°-30° | 3987.5 | 11.1 |
| 30°-40° | 5761.3 | 16.1 |
| 40°-50° | 7698.7 | 21.5 |
| 50°-60° | 8593.4 | 24.0 |
| 60°-70° | 4713.9 | 13.2 |
| 70°-80° | 1019.1 | 2.8 |
| 80°-90° | 164.9 | 0.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 35788.0 | 100.0 |
| 0°-180° | 35788.0 | 100.0 |

Coefficient of Utilization



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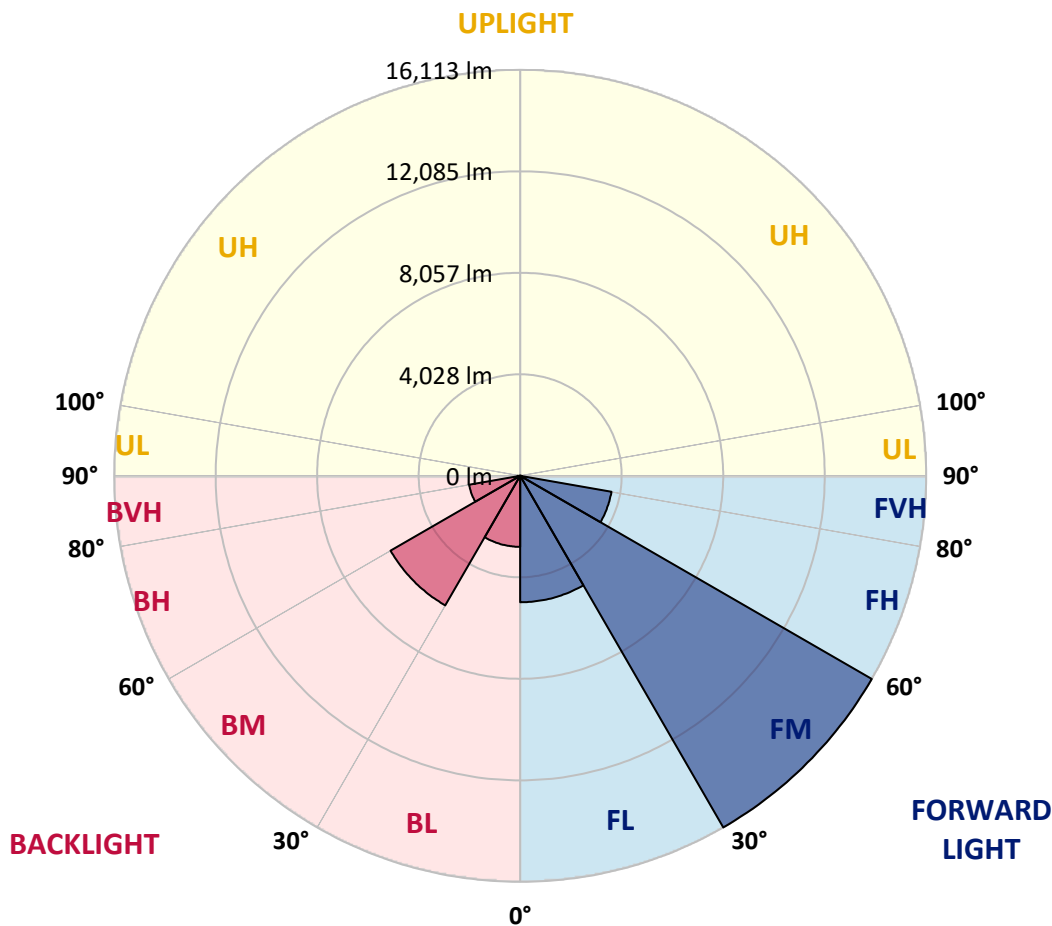
CATALOG NUMBER: GALN-SA9B-735-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5018.1 | 14.0 | | | |
| FM (30°-60°) | 16113.4 | 45.0 | | | |
| FH (60°-80°) | 3678.1 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 61.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2818.7 | 7.9 | B4/5000 | | |
| BM (30°-60°) | 5939.9 | 16.6 | B4/8500 | | |
| BH (60°-80°) | 2054.9 | 5.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 103.8 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P533826

CATALOG NUMBER: GALN-SA9B-735-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 |
| 2.5° | 16753.3 | 16659.2 | 16742.8 | 17140.0 | 17369.9 | 17526.7 | 17626.0 | 17610.3 | 17234.0 | 16868.2 | 16868.2 |
| 5° | 16262.1 | 16141.9 | 16314.3 | 17213.1 | 18117.2 | 18195.5 | 18326.2 | 18111.9 | 17558.0 | 16889.1 | 16053.1 |
| 7.5° | 14840.7 | 14929.5 | 15217.0 | 16397.9 | 17573.7 | 18164.2 | 18321.0 | 18049.2 | 17150.4 | 15901.5 | 14673.5 |
| 10° | 13612.7 | 13821.7 | 14485.4 | 15760.4 | 16842.1 | 17610.3 | 17782.7 | 17401.3 | 16690.6 | 15159.5 | 14062.1 |
| 12.5° | 13189.4 | 13058.8 | 13795.6 | 15070.6 | 16105.3 | 16518.1 | 16596.5 | 16622.6 | 16141.9 | 14783.2 | 13445.5 |
| 15° | 13137.2 | 13220.8 | 13795.6 | 14762.3 | 15399.9 | 15420.8 | 15551.4 | 15755.2 | 15817.9 | 15039.3 | 13732.9 |
| 17.5° | 13889.7 | 13790.4 | 14380.9 | 15149.0 | 14845.9 | 14542.9 | 14574.2 | 14866.8 | 15384.2 | 15258.8 | 14636.9 |
| 20° | 15002.7 | 15227.4 | 15692.5 | 15614.1 | 14798.9 | 14030.7 | 14036.0 | 14312.9 | 15331.9 | 16168.0 | 15896.3 |
| 22.5° | 16852.6 | 17072.0 | 17416.9 | 16471.1 | 14798.9 | 13879.2 | 13701.5 | 14077.8 | 15666.4 | 17249.7 | 17317.6 |
| 25° | 18540.4 | 18942.8 | 19036.9 | 17923.8 | 15540.9 | 14020.3 | 13905.3 | 14276.3 | 16000.8 | 18305.3 | 18948.0 |
| 27.5° | 20076.8 | 20223.1 | 20635.9 | 18859.2 | 15953.8 | 14114.4 | 14103.9 | 14579.4 | 16424.1 | 18833.1 | 20406.0 |
| 30° | 21289.1 | 21273.4 | 21508.6 | 19449.7 | 16612.2 | 14642.1 | 14135.3 | 15034.1 | 16978.0 | 19705.7 | 21754.2 |
| 32.5° | 22114.8 | 22292.4 | 22788.9 | 20270.1 | 16889.1 | 15143.8 | 14746.7 | 15567.1 | 17652.1 | 20118.6 | 22705.2 |
| 35° | 23567.5 | 23875.8 | 23248.7 | 20724.7 | 17767.0 | 15640.2 | 15175.2 | 16293.4 | 17986.5 | 20568.0 | 23870.6 |
| 37.5° | 24936.6 | 24701.4 | 24063.9 | 20970.3 | 18336.6 | 16559.9 | 16126.2 | 17699.1 | 19026.4 | 21545.2 | 24643.9 |
| 40° | 25814.5 | 25809.3 | 24675.3 | 21168.9 | 18739.0 | 17965.6 | 17939.5 | 19125.7 | 20301.5 | 22161.8 | 25511.4 |
| 42.5° | 26195.9 | 26561.7 | 24926.1 | 21148.0 | 19585.6 | 19669.2 | 20197.0 | 21257.8 | 21205.5 | 22287.2 | 25490.5 |
| 44° | 26718.5 | 26938.0 | 25359.9 | 21195.0 | 20149.9 | 20818.8 | 22062.5 | 22736.6 | 21994.6 | 22219.3 | 25464.4 |
| 45° | 26697.6 | 26713.3 | 24743.2 | 21257.8 | 20630.7 | 21780.3 | 22893.4 | 24032.5 | 22689.6 | 22072.9 | 25809.3 |
| 47.5° | 26086.2 | 25908.5 | 24220.7 | 20792.7 | 22130.4 | 24320.0 | 25349.4 | 26039.2 | 23546.6 | 21759.4 | 25380.8 |
| 50° | 24879.1 | 24675.3 | 22950.8 | 20594.1 | 22444.0 | 25898.1 | 27319.5 | 27570.3 | 24325.2 | 21451.1 | 24957.5 |
| 52.5° | 24962.7 | 24905.2 | 23311.4 | 20892.0 | 22757.5 | 26394.5 | 28672.9 | 28735.6 | 25208.3 | 22099.1 | 24962.7 |
| 55° | 26457.2 | 26258.7 | 24346.1 | 21263.0 | 22527.6 | 25814.5 | 27810.7 | 27700.9 | 24910.4 | 21707.2 | 25422.6 |
| 57.5° | 24210.2 | 24340.9 | 22914.3 | 19794.6 | 19716.2 | 20986.0 | 21863.9 | 21592.2 | 20787.4 | 19590.8 | 23651.1 |
| 60° | 19533.3 | 19904.3 | 20040.2 | 16554.7 | 14877.3 | 14224.1 | 13962.8 | 13482.1 | 13617.9 | 16094.9 | 20777.0 |
| 62.5° | 16753.3 | 16732.4 | 17584.2 | 15007.9 | 9745.7 | 8381.9 | 8256.5 | 8366.2 | 9933.9 | 15844.0 | 20348.5 |
| 65° | 13283.5 | 13638.8 | 13900.1 | 12719.1 | 7713.0 | 6223.7 | 6218.5 | 6913.5 | 8596.1 | 13241.7 | 16429.3 |
| 67.5° | 8434.1 | 8899.2 | 9223.2 | 8136.3 | 5157.7 | 4431.3 | 4311.1 | 5147.2 | 5957.2 | 8685.0 | 9892.1 |
| 70° | 4755.3 | 4974.8 | 5121.1 | 4692.6 | 3281.7 | 2299.3 | 2163.4 | 2362.0 | 3600.4 | 5622.7 | 5863.1 |
| 72.5° | 1834.2 | 1933.5 | 2132.0 | 2147.7 | 1238.5 | 742.0 | 600.9 | 721.1 | 1515.4 | 2226.1 | 2121.6 |
| 75° | 282.2 | 303.1 | 428.5 | 512.1 | 355.3 | 271.7 | 287.4 | 297.9 | 423.3 | 574.8 | 480.8 |
| 77.5° | 135.9 | 135.9 | 130.6 | 151.5 | 177.7 | 193.3 | 209.0 | 229.9 | 250.8 | 277.0 | 266.5 |
| 80° | 88.8 | 88.8 | 88.8 | 104.5 | 130.6 | 156.8 | 177.7 | 188.1 | 198.6 | 219.5 | 209.0 |
| 82.5° | 57.5 | 57.5 | 57.5 | 78.4 | 104.5 | 130.6 | 141.1 | 167.2 | 188.1 | 219.5 | 203.8 |
| 85° | 31.4 | 31.4 | 31.4 | 52.3 | 78.4 | 109.7 | 104.5 | 83.6 | 47.0 | 5.2 | 10.5 |
| 87.5° | 10.5 | 10.5 | 10.5 | 10.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GALN-SA9B-735-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 |
| 2.5° | 16429.3 | 16188.9 | 16168.0 | 15676.8 | 15237.9 | 15023.6 | 14851.2 | 14370.4 | 14474.9 | 14198.0 | 14192.7 |
| 5° | 15635.0 | 15143.8 | 14349.5 | 13696.3 | 13043.1 | 12912.5 | 12342.9 | 11846.4 | 11862.1 | 11506.8 | 11569.5 |
| 7.5° | 14208.4 | 13868.7 | 12902.0 | 11877.8 | 11010.3 | 10393.7 | 9855.5 | 9531.5 | 9118.7 | 8977.6 | 8904.4 |
| 10° | 13304.4 | 12886.3 | 11799.4 | 10513.9 | 9542.0 | 9212.7 | 8695.4 | 8408.0 | 7984.7 | 7775.7 | 7629.4 |
| 12.5° | 12907.2 | 12295.8 | 10937.2 | 9630.8 | 8982.8 | 8643.1 | 8204.2 | 7681.6 | 7180.0 | 6986.6 | 6720.1 |
| 15° | 12949.0 | 12217.5 | 10686.4 | 9275.4 | 8496.8 | 7838.4 | 7446.5 | 6866.4 | 6354.3 | 6014.7 | 5821.3 |
| 17.5° | 13581.3 | 12693.0 | 10801.3 | 9003.7 | 7885.4 | 7059.8 | 6291.6 | 5664.6 | 5257.0 | 5000.9 | 4938.2 |
| 20° | 15075.9 | 13868.7 | 10994.7 | 8564.8 | 7274.0 | 6244.6 | 5298.8 | 4645.6 | 4332.0 | 4326.8 | 4332.0 |
| 22.5° | 16319.6 | 15122.9 | 11386.6 | 8303.5 | 6662.6 | 5199.5 | 4258.9 | 4049.8 | 3987.1 | 4117.8 | 4133.5 |
| 25° | 17997.0 | 16533.8 | 12060.7 | 8167.6 | 6098.3 | 4431.3 | 3851.3 | 3772.9 | 3767.7 | 3934.9 | 3940.1 |
| 27.5° | 19716.2 | 17767.0 | 12463.1 | 7770.5 | 5523.5 | 4034.2 | 3605.7 | 3590.0 | 3673.6 | 3851.3 | 3835.6 |
| 30° | 20886.7 | 18801.7 | 13189.4 | 7294.9 | 4844.1 | 3684.0 | 3506.4 | 3527.3 | 3642.2 | 3778.1 | 3799.0 |
| 32.5° | 22250.6 | 19820.7 | 13377.5 | 7033.7 | 4426.1 | 3391.4 | 3266.0 | 3313.0 | 3459.3 | 3673.6 | 3788.6 |
| 35° | 23813.1 | 20541.8 | 13665.0 | 6678.3 | 4269.3 | 3166.7 | 3104.0 | 3156.3 | 3333.9 | 3475.0 | 3600.4 |
| 37.5° | 24967.9 | 21816.9 | 13717.2 | 6401.4 | 4096.9 | 3041.3 | 2942.0 | 3114.5 | 3219.0 | 3417.5 | 3480.3 |
| 40° | 25824.9 | 22741.8 | 13853.1 | 6228.9 | 3961.0 | 2879.3 | 2879.3 | 2994.3 | 3135.4 | 3318.3 | 3443.7 |
| 42.5° | 26373.6 | 23415.9 | 13952.4 | 6072.2 | 3699.7 | 2832.3 | 2806.1 | 2921.1 | 3109.2 | 3286.9 | 3344.4 |
| 44° | 26708.1 | 23703.3 | 13853.1 | 5925.8 | 3626.6 | 2774.8 | 2774.8 | 2874.1 | 3020.4 | 3229.4 | 3297.4 |
| 45° | 26791.7 | 24063.9 | 13633.6 | 5920.6 | 3537.7 | 2706.9 | 2696.4 | 2884.5 | 2983.8 | 3239.9 | 3281.7 |
| 47.5° | 27115.7 | 24508.1 | 13659.7 | 5753.4 | 3323.5 | 2544.9 | 2727.8 | 2811.4 | 2900.2 | 3124.9 | 3266.0 |
| 50° | 27105.2 | 24785.0 | 13602.2 | 5507.8 | 3166.7 | 2362.0 | 2665.1 | 2759.1 | 2848.0 | 3077.9 | 3135.4 |
| 52.5° | 27178.4 | 25819.7 | 14130.0 | 5115.9 | 2884.5 | 2126.8 | 2456.0 | 2665.1 | 2774.8 | 2968.1 | 3088.3 |
| 55° | 27141.8 | 26410.2 | 14652.6 | 4823.2 | 2487.4 | 1985.7 | 2278.4 | 2524.0 | 2680.7 | 2884.5 | 2942.0 |
| 57.5° | 24790.3 | 23342.8 | 13560.4 | 4274.5 | 2058.9 | 1818.5 | 2027.5 | 2377.6 | 2576.2 | 2785.2 | 2858.4 |
| 60° | 20254.4 | 17991.8 | 11182.8 | 3145.8 | 1693.1 | 1672.2 | 1886.4 | 2330.6 | 2414.2 | 2597.1 | 2722.5 |
| 62.5° | 18718.1 | 15781.3 | 8867.8 | 2403.8 | 1447.5 | 1531.1 | 1740.1 | 2105.9 | 2236.6 | 2461.3 | 2576.2 |
| 65° | 14647.4 | 10482.6 | 5492.1 | 1625.2 | 1275.0 | 1374.3 | 1572.9 | 1844.6 | 2058.9 | 2267.9 | 2403.8 |
| 67.5° | 8674.5 | 5727.3 | 2717.3 | 1139.2 | 1113.1 | 1217.6 | 1421.4 | 1625.2 | 1870.8 | 2100.7 | 2168.6 |
| 70° | 4723.9 | 2816.6 | 1160.1 | 867.5 | 945.8 | 1039.9 | 1238.5 | 1379.6 | 1614.7 | 1792.4 | 1907.3 |
| 72.5° | 1515.4 | 857.0 | 580.0 | 642.7 | 721.1 | 830.9 | 951.1 | 1123.5 | 1290.7 | 1395.2 | 1489.3 |
| 75° | 365.8 | 360.6 | 412.8 | 449.4 | 522.6 | 606.2 | 705.5 | 794.3 | 924.9 | 1024.2 | 1107.8 |
| 77.5° | 256.1 | 277.0 | 318.8 | 371.0 | 397.1 | 428.5 | 491.2 | 559.1 | 616.6 | 689.8 | 742.0 |
| 80° | 198.6 | 214.2 | 245.6 | 271.7 | 297.9 | 324.0 | 355.3 | 381.5 | 418.0 | 465.1 | 491.2 |
| 82.5° | 188.1 | 198.6 | 229.9 | 245.6 | 235.2 | 229.9 | 250.8 | 261.3 | 266.5 | 282.2 | 297.9 |
| 85° | 15.7 | 0.0 | 10.5 | 36.6 | 88.8 | 130.6 | 141.1 | 141.1 | 135.9 | 146.3 | 146.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 20.9 | 15.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 |
| 2.5° | 14130.0 | 13952.4 | 14020.3 | 14103.9 | 13983.7 | 13706.8 | 13779.9 | 13748.6 | 14030.7 | 14009.8 | 14292.0 |
| 5° | 11846.4 | 11569.5 | 11600.8 | 12008.4 | 11877.8 | 12018.9 | 11736.7 | 11700.1 | 11752.4 | 11778.5 | 11825.5 |
| 7.5° | 9066.4 | 9029.8 | 9343.4 | 9688.3 | 9850.3 | 9683.0 | 9406.1 | 9343.4 | 9285.9 | 9170.9 | 9432.2 |
| 10° | 7399.5 | 7409.9 | 7389.0 | 7650.3 | 7833.2 | 7796.6 | 7629.4 | 7608.5 | 7498.7 | 7456.9 | 7603.3 |
| 12.5° | 6605.2 | 6464.1 | 6396.1 | 6312.5 | 6453.6 | 6547.7 | 6474.5 | 6422.3 | 6427.5 | 6479.7 | 6500.6 |
| 15° | 5837.0 | 5748.2 | 5601.8 | 5507.8 | 5575.7 | 5528.7 | 5502.6 | 5607.1 | 5580.9 | 5570.5 | 5695.9 |
| 17.5° | 4974.8 | 5047.9 | 5037.5 | 4933.0 | 5021.8 | 4985.2 | 4980.0 | 4906.8 | 4807.6 | 4734.4 | 4776.2 |
| 20° | 4405.2 | 4541.0 | 4645.6 | 4650.8 | 4697.8 | 4692.6 | 4614.2 | 4389.5 | 4316.3 | 4300.7 | 4311.1 |
| 22.5° | 4201.4 | 4274.5 | 4400.0 | 4577.6 | 4577.6 | 4494.0 | 4400.0 | 4138.7 | 4070.7 | 3997.6 | 3966.2 |
| 25° | 4039.4 | 4180.5 | 4342.5 | 4363.4 | 4447.0 | 4368.6 | 4217.1 | 4086.4 | 3945.3 | 3846.0 | 3846.0 |
| 27.5° | 3955.8 | 4112.5 | 4232.7 | 4269.3 | 4384.3 | 4321.6 | 4164.8 | 3997.6 | 3830.4 | 3825.1 | 3736.3 |
| 30° | 3919.2 | 4065.5 | 4143.9 | 4232.7 | 4285.0 | 4185.7 | 4138.7 | 3961.0 | 3793.8 | 3752.0 | 3605.7 |
| 32.5° | 3809.5 | 4018.5 | 4164.8 | 4143.9 | 4185.7 | 4143.9 | 4076.0 | 3929.7 | 3741.5 | 3647.5 | 3631.8 |
| 35° | 3684.0 | 3893.1 | 4049.8 | 4159.6 | 4185.7 | 4096.9 | 4055.1 | 3856.5 | 3600.4 | 3553.4 | 3391.4 |
| 37.5° | 3616.1 | 3741.5 | 3934.9 | 4112.5 | 4149.1 | 4102.1 | 3961.0 | 3757.2 | 3501.2 | 3448.9 | 3307.8 |
| 40° | 3532.5 | 3694.5 | 3846.0 | 3992.4 | 4102.1 | 3987.1 | 3825.1 | 3626.6 | 3511.6 | 3354.8 | 3313.0 |
| 42.5° | 3469.8 | 3652.7 | 3778.1 | 3940.1 | 4065.5 | 3914.0 | 3725.9 | 3590.0 | 3428.0 | 3323.5 | 3203.3 |
| 44° | 3448.9 | 3616.1 | 3699.7 | 3898.3 | 4002.8 | 3887.8 | 3731.1 | 3590.0 | 3401.9 | 3307.8 | 3203.3 |
| 45° | 3375.7 | 3605.7 | 3694.5 | 3872.2 | 3961.0 | 3866.9 | 3668.4 | 3527.3 | 3391.4 | 3276.5 | 3166.7 |
| 47.5° | 3302.6 | 3459.3 | 3610.9 | 3752.0 | 3814.7 | 3783.3 | 3616.1 | 3443.7 | 3281.7 | 3213.7 | 3109.2 |
| 50° | 3281.7 | 3438.4 | 3579.5 | 3710.2 | 3783.3 | 3720.6 | 3569.1 | 3401.9 | 3213.7 | 3104.0 | 3015.2 |
| 52.5° | 3177.2 | 3370.5 | 3527.3 | 3569.1 | 3663.1 | 3626.6 | 3511.6 | 3328.7 | 3151.0 | 3057.0 | 2983.8 |
| 55° | 3025.6 | 3229.4 | 3443.7 | 3495.9 | 3631.8 | 3574.3 | 3401.9 | 3229.4 | 3077.9 | 2936.8 | 2842.7 |
| 57.5° | 2968.1 | 3166.7 | 3375.7 | 3443.7 | 3527.3 | 3433.2 | 3391.4 | 3208.5 | 2968.1 | 2895.0 | 2748.7 |
| 60° | 2821.8 | 3072.7 | 3245.1 | 3401.9 | 3407.1 | 3381.0 | 3307.8 | 3098.8 | 2900.2 | 2764.3 | 2659.8 |
| 62.5° | 2706.9 | 2942.0 | 3077.9 | 3224.2 | 3313.0 | 3239.9 | 3166.7 | 2973.4 | 2759.1 | 2607.6 | 2487.4 |
| 65° | 2539.6 | 2753.9 | 2868.9 | 2957.7 | 3057.0 | 3046.5 | 2921.1 | 2780.0 | 2555.3 | 2435.1 | 2320.2 |
| 67.5° | 2283.6 | 2471.7 | 2628.5 | 2712.1 | 2774.8 | 2759.1 | 2665.1 | 2565.8 | 2335.8 | 2215.7 | 2132.0 |
| 70° | 1975.3 | 2168.6 | 2267.9 | 2314.9 | 2377.6 | 2409.0 | 2335.8 | 2288.8 | 2085.0 | 1928.2 | 1849.9 |
| 72.5° | 1588.6 | 1714.0 | 1860.3 | 1902.1 | 1928.2 | 1949.1 | 1949.1 | 1907.3 | 1698.3 | 1635.6 | 1499.7 |
| 75° | 1170.5 | 1269.8 | 1379.6 | 1379.6 | 1426.6 | 1431.8 | 1442.3 | 1416.1 | 1259.4 | 1175.8 | 1144.4 |
| 77.5° | 794.3 | 867.5 | 956.3 | 992.9 | 1024.2 | 1019.0 | 1013.8 | 940.6 | 857.0 | 820.4 | 789.1 |
| 80° | 517.3 | 590.5 | 632.3 | 679.3 | 710.7 | 705.5 | 715.9 | 663.7 | 627.1 | 564.4 | 574.8 |
| 82.5° | 308.3 | 365.8 | 407.6 | 465.1 | 465.1 | 480.8 | 480.8 | 465.1 | 428.5 | 397.1 | 397.1 |
| 85° | 146.3 | 193.3 | 219.5 | 256.1 | 277.0 | 282.2 | 250.8 | 214.2 | 177.7 | 162.0 | 177.7 |
| 87.5° | 26.1 | 36.6 | 52.3 | 47.0 | 57.5 | 52.3 | 52.3 | 52.3 | 52.3 | 41.8 | 47.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 | 15964.2 |
| 2.5° | 14187.5 | 14448.8 | 14631.7 | 14934.8 | 15457.3 | 15875.4 | 16303.9 | 16622.6 | 16659.2 | 16753.3 |
| 5° | 11998.0 | 12139.1 | 12604.2 | 13210.3 | 13638.8 | 14344.3 | 14798.9 | 15624.6 | 15932.9 | 16262.1 |
| 7.5° | 9369.5 | 9599.4 | 10221.3 | 10628.9 | 11569.5 | 12452.6 | 13367.1 | 14386.1 | 14793.7 | 14840.7 |
| 10° | 7901.1 | 8235.5 | 8658.8 | 9312.0 | 9824.1 | 10806.5 | 11945.7 | 13079.7 | 13534.3 | 13612.7 |
| 12.5° | 6939.6 | 7368.1 | 7932.5 | 8402.8 | 8894.0 | 9751.0 | 10843.1 | 12243.6 | 12834.1 | 13189.4 |
| 15° | 6014.7 | 6458.8 | 7080.7 | 7733.9 | 8167.6 | 9191.8 | 10477.3 | 12055.5 | 12823.6 | 13137.2 |
| 17.5° | 5063.6 | 5476.4 | 5988.5 | 6694.0 | 7566.7 | 8716.3 | 10419.9 | 12682.5 | 13523.9 | 13889.7 |
| 20° | 4248.4 | 4478.3 | 5074.1 | 5800.4 | 6892.6 | 8230.3 | 10440.8 | 13607.5 | 14840.7 | 15002.7 |
| 22.5° | 3929.7 | 3981.9 | 4217.1 | 4885.9 | 6082.6 | 7733.9 | 10811.8 | 14919.1 | 16319.6 | 16852.6 |
| 25° | 3684.0 | 3673.6 | 3736.3 | 4185.7 | 5492.1 | 7540.5 | 11177.6 | 16126.2 | 17960.4 | 18540.4 |
| 27.5° | 3548.2 | 3443.7 | 3448.9 | 3872.2 | 5074.1 | 7227.0 | 11647.9 | 17511.0 | 19820.7 | 20076.8 |
| 30° | 3480.3 | 3459.3 | 3396.6 | 3569.1 | 4619.4 | 6756.7 | 11726.3 | 18874.9 | 20918.1 | 21289.1 |
| 32.5° | 3438.4 | 3234.6 | 3156.3 | 3219.0 | 4190.9 | 6244.6 | 12018.9 | 19773.7 | 22276.7 | 22114.8 |
| 35° | 3229.4 | 3046.5 | 2994.3 | 3057.0 | 3887.8 | 5957.2 | 11825.5 | 20557.5 | 23295.7 | 23567.5 |
| 37.5° | 3151.0 | 2989.0 | 2884.5 | 2832.3 | 3605.7 | 5716.8 | 11726.3 | 21764.6 | 24283.4 | 24936.6 |
| 40° | 3077.9 | 2905.4 | 2780.0 | 2727.8 | 3386.2 | 5398.0 | 11694.9 | 22694.8 | 25422.6 | 25814.5 |
| 42.5° | 2994.3 | 2884.5 | 2743.4 | 2649.4 | 3119.7 | 5079.3 | 11334.3 | 22982.2 | 25772.7 | 26195.9 |
| 44° | 2968.1 | 2800.9 | 2654.6 | 2623.3 | 3015.2 | 4917.3 | 11261.2 | 23243.5 | 26075.8 | 26718.5 |
| 45° | 2942.0 | 2785.2 | 2618.0 | 2576.2 | 2978.6 | 4828.5 | 11161.9 | 23306.2 | 26577.4 | 26697.6 |
| 47.5° | 2868.9 | 2769.6 | 2607.6 | 2492.6 | 2900.2 | 4635.1 | 10864.0 | 22950.8 | 26065.3 | 26086.2 |
| 50° | 2811.4 | 2696.4 | 2529.2 | 2304.5 | 2795.7 | 4473.1 | 10999.9 | 22820.2 | 24832.1 | 24879.1 |
| 52.5° | 2748.7 | 2576.2 | 2482.2 | 2095.5 | 2623.3 | 4337.3 | 11287.3 | 23410.7 | 24973.2 | 24962.7 |
| 55° | 2675.5 | 2487.4 | 2257.5 | 1917.8 | 2335.8 | 4164.8 | 11982.3 | 24576.0 | 26279.6 | 26457.2 |
| 57.5° | 2560.5 | 2398.6 | 2069.3 | 1761.0 | 2006.6 | 3835.6 | 11757.6 | 22344.7 | 24178.9 | 24210.2 |
| 60° | 2409.0 | 2257.5 | 1876.0 | 1640.8 | 1646.1 | 3025.6 | 10513.9 | 17411.7 | 19078.7 | 19533.3 |
| 62.5° | 2262.7 | 2179.1 | 1714.0 | 1468.4 | 1400.5 | 2409.0 | 8888.8 | 14469.7 | 16377.0 | 16753.3 |
| 65° | 2090.2 | 1886.4 | 1572.9 | 1337.8 | 1201.9 | 1687.9 | 6296.9 | 10811.8 | 12776.6 | 13283.5 |
| 67.5° | 1870.8 | 1651.3 | 1384.8 | 1175.8 | 1029.4 | 1128.7 | 3250.3 | 6145.3 | 8136.3 | 8434.1 |
| 70° | 1635.6 | 1431.8 | 1165.3 | 992.9 | 830.9 | 778.6 | 1431.8 | 2931.6 | 4447.0 | 4755.3 |
| 72.5° | 1343.0 | 1154.9 | 930.2 | 783.8 | 621.8 | 538.2 | 480.8 | 783.8 | 1578.1 | 1834.2 |
| 75° | 972.0 | 841.3 | 700.2 | 559.1 | 439.0 | 344.9 | 282.2 | 235.2 | 261.3 | 282.2 |
| 77.5° | 715.9 | 611.4 | 517.3 | 397.1 | 308.3 | 245.6 | 193.3 | 146.3 | 141.1 | 135.9 |
| 80° | 559.1 | 496.4 | 412.8 | 318.8 | 240.4 | 182.9 | 135.9 | 99.3 | 88.8 | 88.8 |
| 82.5° | 439.0 | 407.6 | 339.7 | 261.3 | 198.6 | 146.3 | 99.3 | 67.9 | 57.5 | 57.5 |
| 85° | 167.2 | 167.2 | 245.6 | 214.2 | 151.5 | 104.5 | 67.9 | 36.6 | 31.4 | 31.4 |
| 87.5° | 41.8 | 41.8 | 41.8 | 41.8 | 36.6 | 31.4 | 31.4 | 15.7 | 10.5 | 10.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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